

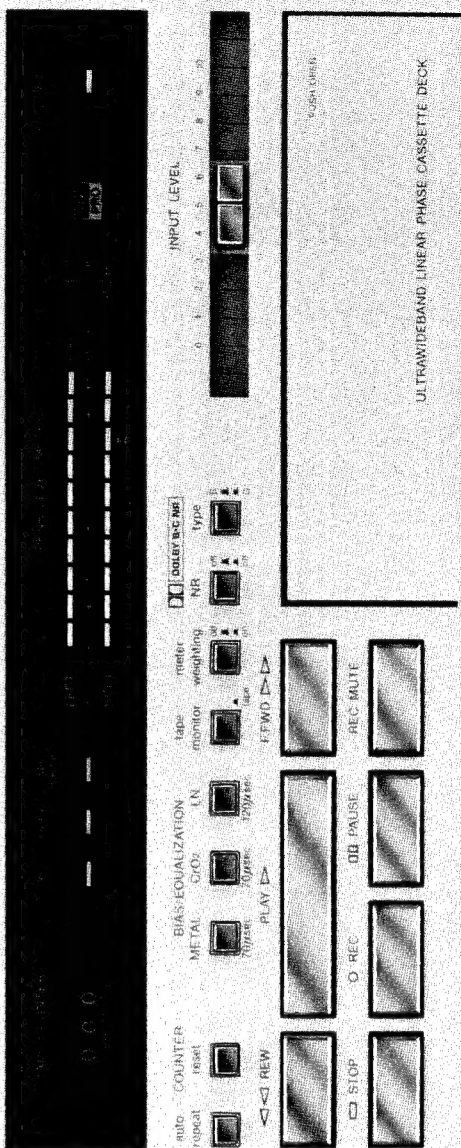
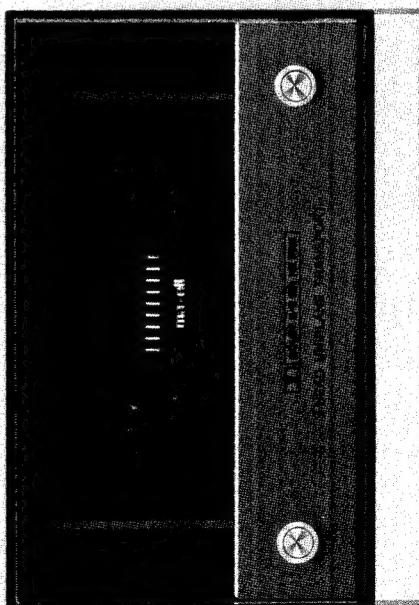
harman/kardon

ULTRAWIDEBAND
LINEAR PHASE
CASSETTE DECK

TD392

owner's manual

harman/kardon TD392



Congratulations on your purchase of the Harman Kardon TD392 Ultrawideband Linear Phase Cassette Deck.

In order to appreciate the full performance of this sophisticated unit, please be sure to read this owner's manual and use your cassette deck only in accordance with its instructions. Keep it in a safe place for future reference.

Frequency Response : 20 — 22,000Hz
(± 3 dB, Dolby NR out with
any tape formation)

Wow and Flutter
NAB, WRMS : 0.05%
CCIR, WP : 0.08%

Signal-to-Noise Ratio (CrO₂)
Dolby NR Off : 57dB
Dolby B NR : 65dB
Dolby C NR : 73dB

Input Level/Impedance : 65 mV/22k Ohms

Output Level : 500 mV
(0dB, 10k Ohms load)

Headphones Impedance : More than 8 Ohms

Fast Forward and Rewind: 90 sec.
Time (C-60 tape)

Heads : 3 heads

Recording/Playback : Sendust/Ferrite
Head Type

Dimensions (W x H x D) : 17-7/16" x 4-13/16" x 13-1/8"
(443 x 122 x 334 mm)

Weight : 12lbs. 13oz. (5.8kg)

Power Supply : AC 120V, 60Hz

Power Consumption : 30W

All specifications and features subject to change without notice.

■ Ultrawideband Frequency Response

The frequency response of this unit is 20Hz — 22kHz ± 3 dB with low noise (standard), chromium dioxide (CrO₂) and metal tapes.

■ 3-Head Configuration

Individual heads are employed for record and playback. The sendust record head and ferrite playback head are each optimized for their specific purpose. This reduces distortion while increasing high frequency response and dynamic range, it also allows monitoring the recording while it is in progress.

■ Dolby* HX PRO Headroom Extension System

HX PRO improves high level, high frequency recording capability. This results in wider dynamic range and reduced high frequency distortion.

■ Active/Passive Playback Equalization

The playback amplifier has precise equalization in both the open-loop (without feedback) and closed-loop (with feedback) modes. This permits the use of very low levels of negative feedback at all frequencies from 20Hz—22kHz, resulting in improved sound quality.

■ Dolby B and C Noise Reduction

This model is capable of providing the standard Dolby B, as well as the new Dolby C noise reduction. Dolby C has twice the noise reduction effect of Dolby B, and also improves high level, high frequency response.

■ Bias Fine Trim

This feature allows precise adjustment of the record bias so that optimum performance can be obtained from any tape.

■ Solenoid Logic Control

This gives a pleasant, feather-touch feel to the functioning of the transport. It also allows direct function changes such as rewind-to-play.

■ Auto-Repeat Function

This enables the cassette deck to continuously repeat playback of one side of a cassette tape.

*Dolby noise reduction and HX PRO headroom extension manufactured under license from Dolby Laboratories Licensing Corporation. HX PRO originated by Bang and Olufsen. "Dolby", the double-D symbol and "HX PRO" are trademarks of Dolby Laboratories Licensing Corporation.



CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN



CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

CAUTION: TO PREVENT ELECTRIC SHOCK, DO NOT USE THIS (POLARIZED) PLUG WITH AN EXTENSION CORD, RECEPTACLE OR OTHER OUTLET UNLESS THE BLADES CAN BE FULLY INSERTED TO PREVENT BLADE EXPOSURE.

ATTENTION: POUR PREVENIR LES CHOCS ELECTRIQUES NE PAS UTILISER CETTE FICHE POLARISEE AVEC UNE RALLONGE. UNE PRISE DE COURANT OU UNE AUTRE SORTIE DE COURANT, SAUF SI LES LAMES PEUVENT ETRE INSEREES A FOND SANS EN LAISSER AUCUNE PARTIE A DECOUVERT.

This manual applies to champagne gold and black versions with this model TD392.

Always Use at 120V AC

This unit is designed for operation with 120V AC. Connect only to domestic AC outlets. Never connect the unit to an outlet supplying a higher voltage. This may create a fire hazard.

Handle the Power Cord Gently

- Do not disconnect the plug from the AC outlet by pulling the cord; always pull the plug itself. Pulling the cord may break the wire.
- If you do not intend to use your unit for any considerable length of time, disconnect the plug from the AC outlet.
- Do not place furniture or other heavy objects on the cord, and avoid dropping heavy objects on it. Also do not make a knot in the power cord. Not only may the cord be damaged, it can also cause a short circuit and a consequent fire hazard.

Place of Installation

Place your unit on a firm and level surface. Avoid installing your unit under the following conditions:

- ▶ Moist or humid places.
- ▶ Places exposed to direct sunlight or close to heating equipment.
- ▶ Extremely cold locations such as those in the direct draft from an air conditioner.
- ▶ Places subject to excessive vibration or dust.
- ▶ Poorly ventilated places.
- ▶ Near a television, speaker or other object that generates a strong magnetic field.

Also do not place your unit near a transformer, motor, etc. where induced hum may be produced.

Moving the Unit

Before moving the unit, be sure to unplug the power cord from the AC outlet and disconnect the interconnection cords to other units.

Do Not Open the Cabinet

To prevent fire or shock hazard, do not tamper with internal components for inspection or maintenance. Harman Kardon does not guarantee against performance degradation resulting from any modification.

If water, a hairpin or wire accidentally enters the unit, immediately unplug the power cord from the AC outlet to prevent shock and consult an authorized Harman Kardon service station. If you use the unit under this condition, it may cause a fire or shock hazard.

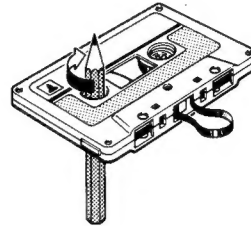
Cleaning

When the unit gets dirty, wipe it with a soft dry cloth. If necessary, wipe it with a soft cloth dampened with mild soapy water and then wipe with a dry cloth.

Never use benzine, thinner, alcohol or other volatile agent, and avoid spraying an insecticide near the unit.

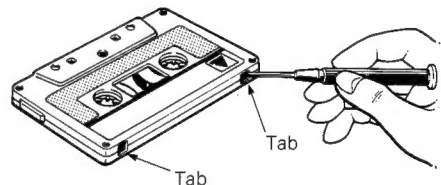
Cassette Tape Handling

- Be sure to remove the cassette tape from the cassette compartment at the end of operation to preserve the tape quality and maintain the cassette deck's performance.
- Store cassette tapes away from a strong magnetic field such as near a TV set, receiver or speakers to prevent an adverse effect on the recorded signal.
- Before a cassette tape is played back or recorded, be sure to eliminate any tape slack. A slackened tape, if used, may cause jamming in the tape transport mechanism.



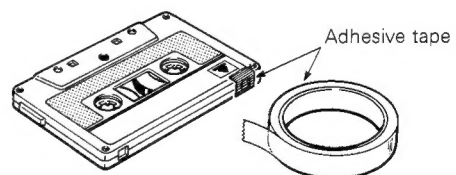
Remove tape slackness by winding the tape reels with a pencil.

- If the sound recorded on the tape is to be protected from accidental erasure, remove the erase-prevention tabs in the cassette shell. With these tabs broken out, accidental erasure is prevented, because your unit will automatically detect that the tabs have been removed, and will not enter the record mode.



Break the tabs off with a screwdriver.

- If it is later desired to record on a cassette tape protected in this way, cover the holes with adhesive tape.



Dolby B and C Noise Reduction (NR) Systems

The TD392 provides both the Dolby B and the Dolby C noise reduction systems. Dolby B has become a standard feature on many decks. Dolby C is a newer, more effective system that virtually eliminates noise from cassette recordings.

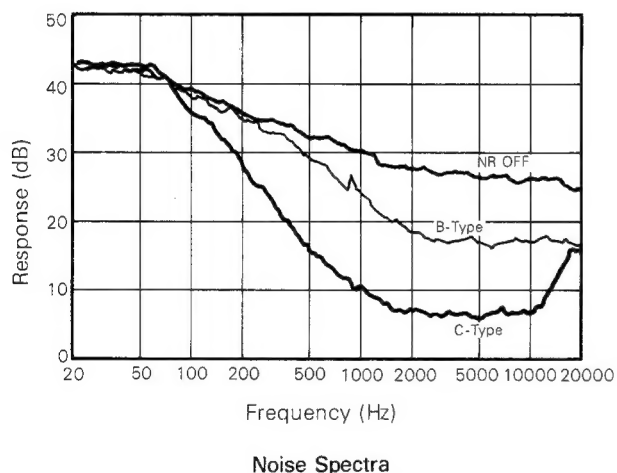
What causes tape noise

Tape noise is inherent to some extent in all magnetic recordings. With cassette tapes, the most objectional noise is in the midrange and high frequencies and is perceived as "hiss". The amount of "hiss" is affected by many factors, such as the tape speed, the size of the magnetic particles on the tape and the level of the recorded signal. The tape speed is standardized and the TD392 is optimized for popular low noise tape formulations.

The operating principle of Dolby noise reduction

In short, the Dolby noise reduction systems boost weak midrange and high frequency signals during the record mode, and then reduce them to their original level during playback. This enables the weak signals to be recorded at higher levels and therefore be played back at higher levels relative to the "hiss".

Dolby C has twice the noise reduction effect as Dolby B. Neither system, however, is capable of removing noise from the signal source.



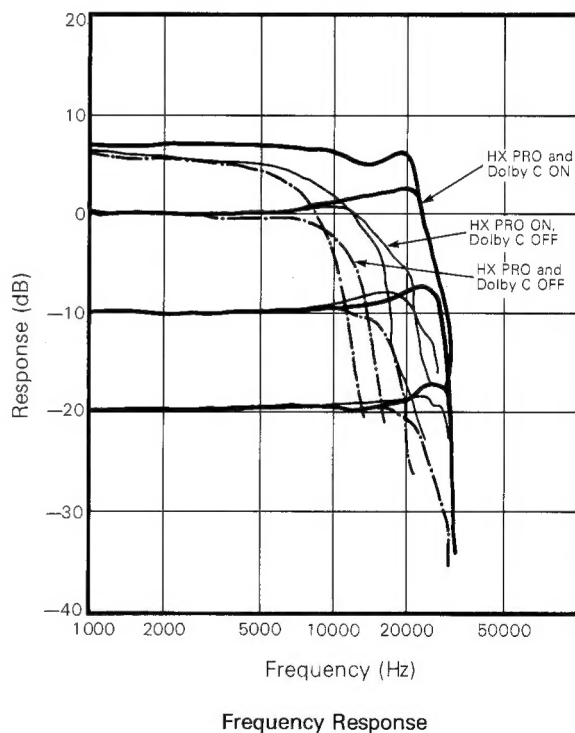
Dolby HX PRO Headroom Extension System

The TD392 is equipped with the Dolby HX PRO headroom extension system. It operates only during the record mode and does not require the user to "turn it on" or make adjustments. It is compatible with any low noise (standard), chromium dioxide (CrO₂), or metal audio cassette tape.

The effect of HX PRO is that it extends the high frequency saturation (overload) level of the tape being recorded. Therefore, many of the high level, high frequency music signals that would be compressed or distorted with a conventional cassette deck will be recorded accurately by the TD392. In order to determine the optimum record level, see "Recording Level Adjustment" section on page 7.

The advantages of HX PRO are:

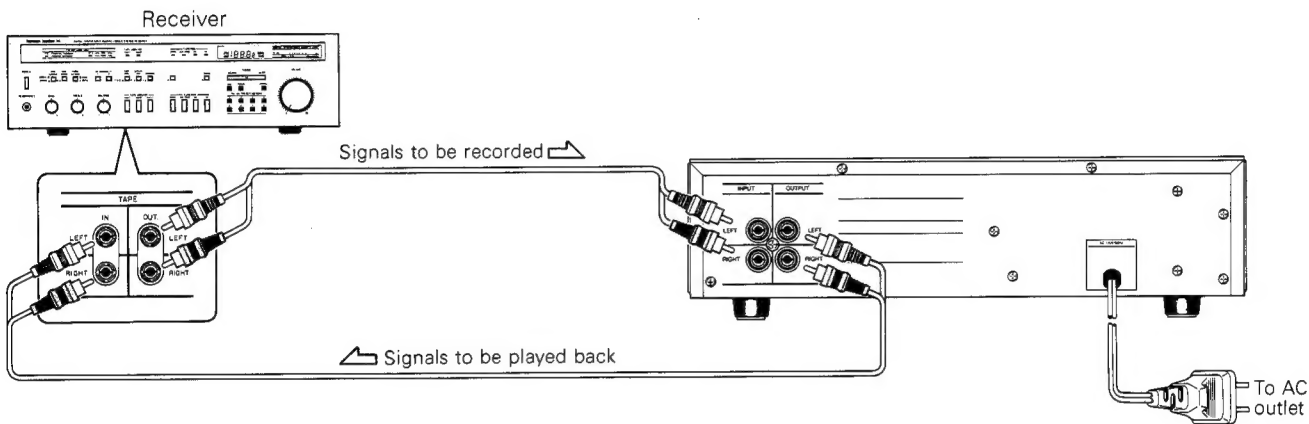
1. The performance of low noise and chromium dioxide tapes almost equals that of the more expensive metal tapes.
2. A major improvement is made in high frequency dynamic range.
3. The higher record levels result in an increased signal-to-noise ratio.
4. No decoding is necessary. The improved recording accuracy can be appreciated with any high quality tape player, including a portable or car stereo unit.
5. It can be used with or without Dolby B and C noise reduction circuitry.



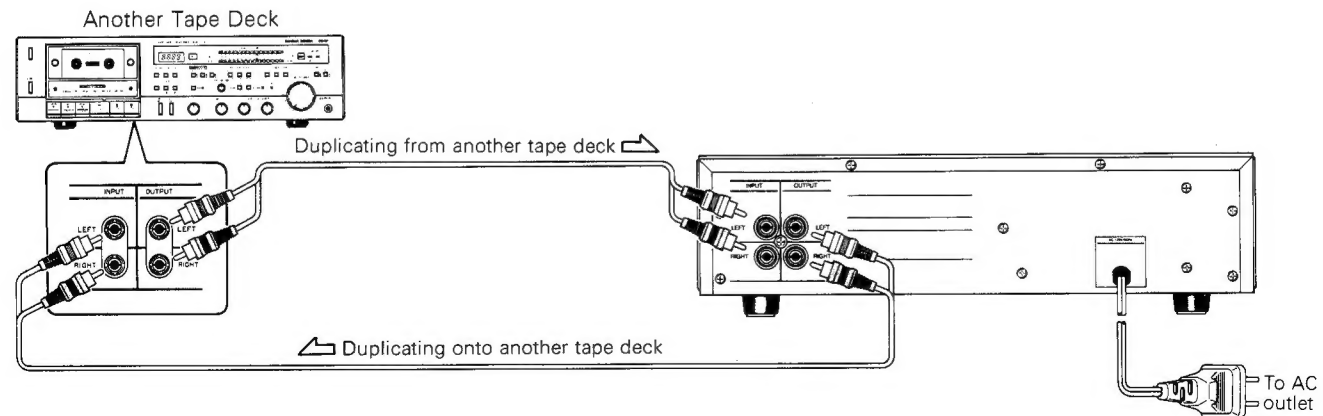
Carefully connect the plugs of the connection wire to the left and right channel jacks. Push the plugs in all the way. Poor seating tends to cause noise or intermittent sound.

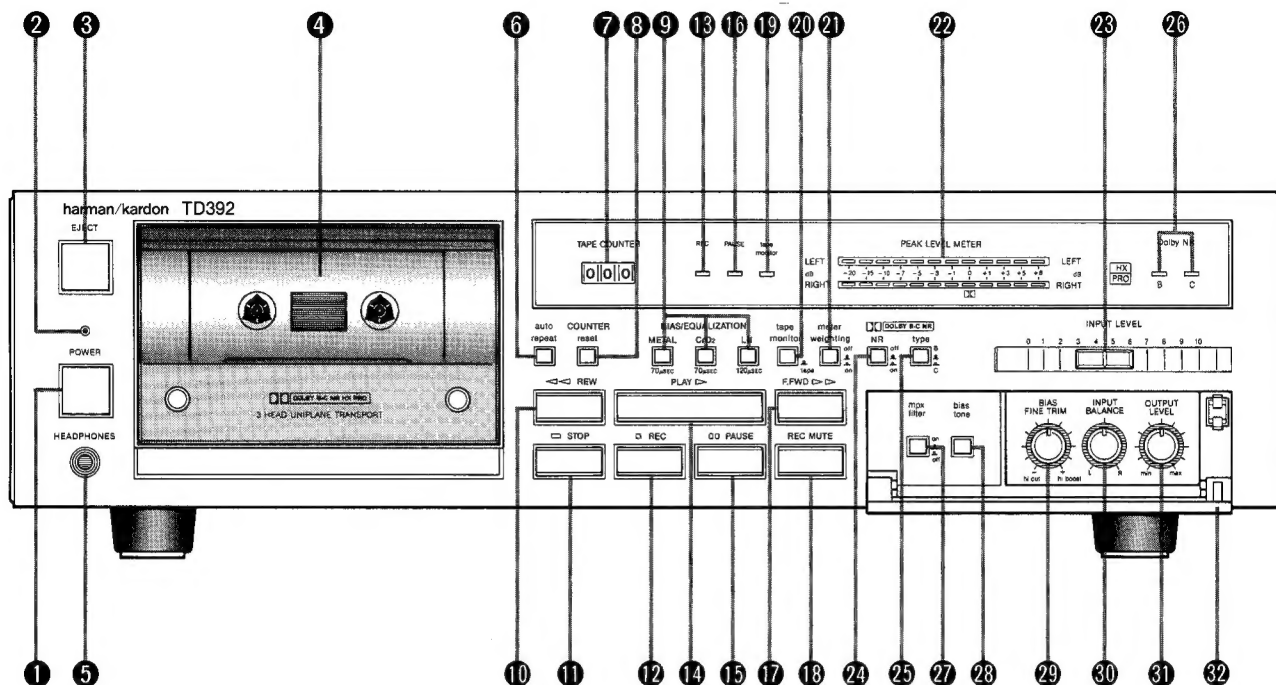
CAUTION: While you are connecting your cassette deck to the rest of your high fidelity system, unplug the power cords, disconnecting all of the components as well as your cassette deck, from the AC outlet.

Connection to the Receiver



Connection to Another Tape Deck for Dubbing





1 POWER SWITCH (POWER)

Pressing this switch will turn on the power and the POWER indicator will light up. Press the switch again to turn the power off.

2 POWER INDICATOR

3 EJECT BUTTON (EJECT)

The soft eject mechanism opens the door slowly when this button is pressed.

CAUTION: This button cannot be depressed while the tape is running. Be sure to press the STOP button before pressing the EJECT button.

4 CASSETTE COMPARTMENT

5 HEADPHONES JACK (HEADPHONES)

Stereo headphones with a standard 1/4 inch plug can be connected to this jack. When headphones are connected, the sound during recording or playback can be listened to without connecting this unit to a receiver. The volume level of the headphones can be adjusted by the OUTPUT LEVEL control knob. To listen to a recorded tape, press the TAPE MONITOR switch.

6 AUTOMATIC REPEAT BUTTON (auto repeat)

When this button is depressed, the cassette deck will continuously rewind and replay one side of the tape.

7 TAPE COUNTER

For a digital indication of the position on a cassette tape. The figure changes as the tape runs. Cueing for the start of a selection is facilitated by making a note of the counter reading.

8 COUNTER RESET BUTTON (COUNTER reset)

Press this button to reset the TAPE COUNTER when starting to record.

9 TAPE SELECTORS (BIAS/EQUALIZATION)

For selection of the record and playback circuitry that provides the lowest distortion and flattest frequency response for metal, chromium dioxide (CrO₂) or low noise (LN) tape.

10 REWIND BUTTON (REW)

Press this button to rewind a tape at high speed.

11 STOP BUTTON (STOP)

Press this button to stop each operation. Pressing this button stops the playback, recording, fast forward and rewind modes. It also cancels the standby mode activated by the PAUSE button.

12 RECORD BUTTON (REC)

Press this button and the PAUSE button simultaneously to provide the record standby mode. The RECORD and PAUSE indicators will illuminate. Recording starts when the PLAY button is pressed.

13 RECORD INDICATOR

For indication that the tape is being recorded.

14 PLAY BUTTON (PLAY)

Press this button to start playback.

15 PAUSE BUTTON (PAUSE)

Press this button to temporarily stop playback or recording. This button also activates the record standby mode when pressed simultaneously with the RECORD button.

16 PAUSE INDICATOR

For indication that the pause mode has been activated.

17 FAST FORWARD BUTTON (F.FWD)

Press this button to quickly advance the tape in the same direction as it is played.

18 RECORD MUTE BUTTON (REC MUTE)

This button allows you to create a silent segment of tape at any time while recording. The button is a momentary contact type and will not lock in the depressed position. The record mute feature will only operate while the button is held in the depressed position.

19 TAPE MONITOR INDICATOR

This indicates the position of the TAPE MONITOR switch.

20 TAPE MONITOR SWITCH (tape monitor)

This switch determines whether the output of the cassette deck is the tape playback signal or the input (source) signal.

21 METER WEIGHTING SWITCH (meter weighting)

Press this switch to the "on" position, and high frequencies are emphasized and displayed on the PEAK LEVEL METER corresponding to the saturation response of the tape. This allows you to set the optimum recording level independent of the frequency content of the music signal.

22 PEAK LEVEL METER

The level of the signal being recorded or played is displayed clearly on this meter.

23 INPUT LEVEL CONTROL KNOB (INPUT LEVEL)

This knob adjusts the record level of the input signal. See the "Recording Level Adjustment" section on page 7.

24 DOLBY NR SWITCH (NR)

Depress this switch for recording or playback using the Dolby NR system. The green DOLBY NR indicator (for B-type) or the amber one (for C-type) illuminates according to the DOLBY NR TYPE selector position. Press the switch again to turn off the Dolby NR system.

25 DOLBY NR TYPE SELECTOR (type)

For selection of the Dolby B- or C-type NR system. Depress this switch to select the Dolby C-type NR system. Press it again to select the Dolby B-type system.

26 DOLBY NR INDICATOR

For indication that Dolby B or C noise reduction circuitry is activated.

27 MPX FILTER SWITCH (mpx filter)

The MPX filter is a high frequency filter that has very little effect below 16kHz, but has 30dB attenuation at 19kHz, the frequency of the FM stereo pilot signal. Depress and release this switch (to the "on" position) when recording from an FM stereo tuner or receiver. However, to appreciate the ultrawideband frequency response of the TD392, depress this switch (to the "off" position) when recording all other sources, such as a turntable, tape deck, etc.

28 BIAS TONE BUTTON (bias tone)

When this button is held in the depressed position, high and low frequency test tones are fed to the right and left channels, respectively. The BIAS FINE TRIM knob can be precisely adjusted by observing its effect on the level of these test tones. See the "Bias Fine Trim Feature" section on page 8.

29 BIAS FINE TRIM KNOB (BIAS FINE TRIM)

For precise adjustment of the bias used during recording. See the "Bias Fine Trim Feature" section on page 8.

30 INPUT BALANCE CONTROL KNOB (INPUT BALANCE)

This knob is used to restore the input level balance when the levels of the right and left channels are extremely different or to deliberately upset the input level balance as you like. Usually, it is set at the center. Turn it clockwise, the recording level of left channel is decreased. Turn it counterclockwise, the recording level of right channel is decreased.

31 OUTPUT LEVEL CONTROL KNOB (OUTPUT LEVEL)

This control knob adjusts the output level of the line OUTPUT jacks and the HEADPHONES jack.

32 SUB-PANEL DOOR

Press the upper right part of the SUB-PANEL DOOR and it will release. Then open the door to access the sub-panel switches and controls.

Tape Recording

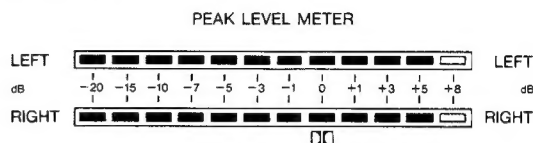
1. Turn the volume control knob of the receiver to the minimum level and turn on the receiver. Then press the TD392 POWER switch. The POWER indicator lights up.
2. Press the EJECT button to open the CASSETTE COMPARTMENT door and carefully insert a cassette tape. Incorrect cassette insertion may cause a malfunction in door closing or recording.
3. Press the TAPE SELECTOR button corresponding to the type of tape being used.
4. To record with the Dolby NR system, depress the DOLBY NR switch to the "on" position and select the "B"- or "C"-type with the DOLBY NR TYPE selector. The B-type indicator will illuminate in green, or the C-type indicator in amber.
5. To record from an FM stereo tuner or receiver with the Dolby NR system, set the MPX FILTER switch to the "on" (out) position. This is not necessary if the tuner or receiver has 19kHz pilot cancelling.
6. Set the TAPE MONITOR switch to the source (out) position (the TAPE MONITOR indicator will not illuminate). The source can be heard from the headphones or speakers. Adjust the sound volume to the desired level by turning the OUTPUT LEVEL control knob.
7. Adjust the record level with the INPUT LEVEL control knob as per the instructions provided in the "Recording Level Adjustment" section on this page.
8. Adjust the INPUT BALANCE control knob if necessary. (Refer to CONTROLS AND FUNCTIONS on page 6.)
9. Press the RECORD and PAUSE buttons at the same time. The RECORD and PAUSE indicators illuminate.
10. Press the COUNTER RESET button to reset the TAPE COUNTER indication to "000".
11. Press the PLAY button to start recording. The PAUSE indicator goes out.
12. To monitor the recording, press the TAPE MONITOR switch to the "tape" position. The TAPE MONITOR indicator illuminates. This allows the user to monitor the sound just recorded on the tape. Adjust the sound volume to the desired level by turning the OUTPUT LEVEL control knob.
13. Press the PAUSE button for temporarily stopping the tape. Press the PLAY button to restart recording.
14. Press the STOP button to stop recording.
15. Tape recording automatically stops when the end of the tape is reached and the record mode is cancelled.

Recording Level Adjustment

With the INPUT BALANCE control knob at 12 o'clock position, adjust the optimum record level by moving the INPUT LEVEL control knob while observing the PEAK LEVEL METER in order to meet the type of the tape to be recorded.

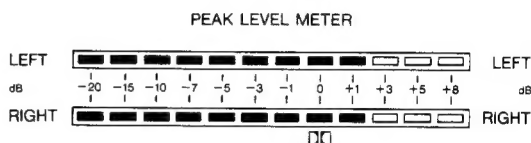
- Make adjustment as described below when the sound level is relatively high.

When using a metal tape.



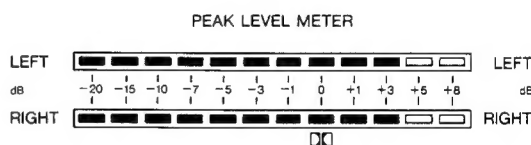
Momentary illumination up to +5dB is allowable.

When using chromium dioxide tape.



From time to time illumination up to +1dB is allowable.

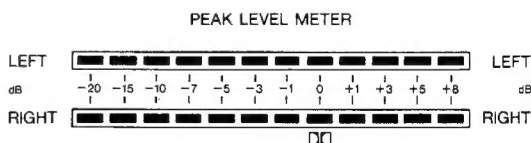
When using a low noise tape.



Momentary illumination up to +3dB is allowable.

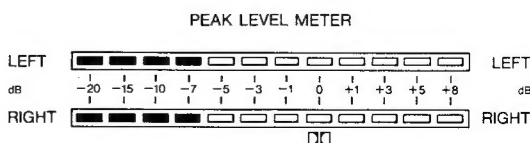
- The following adjustments will cause excessive sound distortion or tape noise.

Too high an input level setting (illumination up to +8dB).



A recording with excessive distortion will result.

Too low an input level setting (peak illumination of less than 0dB).



A recording with excessive tape noise will result.

Bias Fine Trim Feature

The optimal amount of recording bias varies from tape to tape. The bias fine trim feature is provided to enable precise adjustment for such variations.

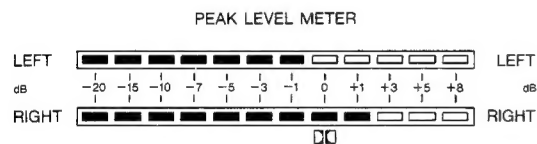
The high frequency range tends to be attenuated if the bias current is higher than the optimum value while it tends to be boosted if the bias current is less than the optimum value. Less than optimum bias also increases the amount of distortion in a recording.

This unit assists the user in determining the precise amount of bias, and therefore in obtaining the widest and flattest frequency response.

Operate as follows:

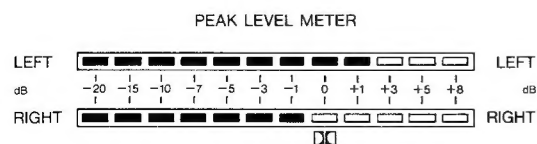
- 1. Insert a cassette tape in the CASSETTE COMPARTMENT and press the TAPE SELECTOR button corresponding to the type of tape being used.
- 2. Set the DOLBY NR switch to the "off" position.
- 3. Depress the TAPE MONITOR switch to the "tape" position and make certain that the TAPE MONITOR indicator illuminates.
- 4. Press the RECORD and PLAY buttons together to start recording.
- 5. Hold the BIAS TONE button in. A 400Hz signal and a 12.5kHz signal are recorded in the left and right channels, respectively.
- 6. Compare the left and right channel PEAK LEVEL METER readings. If the amount of bias is optimum, the left and right channels will have the same reading. Turn the BIAS FINE TRIM knob counterclockwise (toward the direction marked as "hi cut") if the right channel reading exceeds the left channel reading or clockwise (toward the direction marked as "hi boost") if the left channel reading exceeds the right channel reading.

If the right channel reading exceeds the left channel reading.



Turn the knob counterclockwise.

If the left channel reading exceeds the right channel reading.



Turn the knob clockwise.

Record Mute

When the TD392 is in the record mode, the RECORD MUTE button can be used to create a silent space on the tape. Depressing the RECORD MUTE button cuts the signal to the record circuitry. This feature only functions while the button is held in the depressed position. Record mute is especially convenient when recording from a source that has excessive noise between selections.

Erasing Recorded Signals

When a new recording is made on a recorded tape, the recorded sound on that part of the tape is automatically erased. To erase a recorded tape without making a new recording, operate as follows:

- 1. Check to be sure that erase-prevention tabs of the cassette are not broken out. Then insert a cassette tape in the CASSETTE COMPARTMENT. If broken, cover the holes with adhesive tape.
- 2. Set the INPUT LEVEL control knob to the "0" position.
- 3. Press the TAPE SELECTOR button corresponding to the type of the tape.
- 4. Press the RECORD and PLAY buttons at the same time.
- 5. The portion of the tape that passes the tape heads will be erased.

Cassette Tape and Corresponding Tape Selector Settings

The table below shows several types of major brand tapes and the corresponding tape selector settings.

| Position | LN | CrO ₂ | METAL |
|-------------|--------------------|------------------|----------|
| MAXELL | UDI | XLII | MX |
| | *XLI XLI-S | XLII-S | |
| TDK | AD | *SA | *MA |
| | AD-S AR AR-X | SA-X | MA-R |
| SONY | HF-S | UCX | Metal-S |
| | HF-ES HF-PRO | UCX-S | Metal-ES |
| AXIA (FUJI) | PS-I GT-I | GT-II | |
| DENON | DX-3 | HD-6 | DX-M |
| | DX-4 | HD-S | |
| BASF | PRO-I | PRO-II | PRO-IV |

Tapes with the mark (*) are the standard reference tapes.

Tape Playback

1. Turn the volume control of the receiver to the minimum level and then turn it on. Select the tape monitor input to which the TD392 is connected.
2. Depress the TD392 POWER switch, and the POWER indicator lights up.
3. Press the EJECT button to open the CASSETTE COMPARTMENT door, and carefully insert the recorded cassette tape in the compartments. Incorrect insertion may cause failure in door closing or playback.
4. Press the TAPE SELECTOR button according to the type of tape being played.
5. Press the DOLBY NR switch to the "on" position for a tape recorded with Dolby B or Dolby C encoding. Select the "B"- or "C"-type with the DOLBY NR TYPE selector.
6. Press the TAPE MONITOR switch to the "tape" position and the TAPE MONITOR indicator illuminates.
7. Press the PLAY button and the tape will begin playing.
8. Gradually turn the TD392 OUTPUT LEVEL control knob and the volume control of your receiver until the playback level is adequate.
9. Press the PAUSE button to temporarily stop the tape. Press the PLAY button to restart tape playback.
10. Press the STOP button to stop tape playback. Press the PLAY button again to start tape playback.
11. The TD392 will automatically go into the stop mode when the end of the tape is reached.

Automatic Repeat Function

The automatic repeat function is convenient for automatic repeated playback from the beginning of a tape to the end.

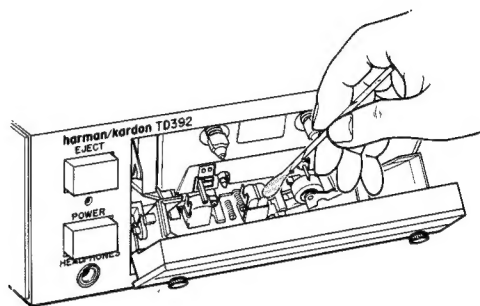
Depress the AUTO REPEAT button. When the end of the tape is reached, the tape is automatically rewound to the beginning, and is automatically replayed endlessly.

Solenoid Logic Control

The function buttons (STOP, PLAY, REW, F.FWD, REC, PAUSE) are the momentary contact type. The user needs only to lightly press and release each button in order to engage its function. An electronic circuit automatically determines whether or not to stop the transport between functions, thereby safely permitting direct changes by the user.

Clean the tape heads, capstans and pinch rollers from time to time to assure optimum sound reproduction. Otherwise, your TD392 may be subject to drop-outs, frequency response degradation or wow and flutter.

1. Before cleaning, open the CASSETTE COMPARTMENT door.
2. Use a cotton swab dampened with diluted anhydrous alcohol and clean the record and playback heads, erase head, capstans and pinch rollers.
3. DO NOT START tape playback or recording until alcohol is thoroughly evaporated (about 10 minutes).



The record and playback heads, erase head and capstans will gradually become magnetized. Since the magnetism causes noise and high frequency response degradation, be sure to demagnetize these parts with a demagnetizer especially designed for this purpose.

Most of the problems consumers have with their high fidelity system are due to incorrect operation. If this unit does not operate as you intended, first check the items in the

following checklist. Also check other related components such as the receiver, turntable, speakers and other electrical equipment you use with this cassette deck.

| Problem | Cause | Remedy |
|---|---|---|
| The tape does not run. (Cannot record or play-back.) | <ul style="list-style-type: none"> • The power cord is not plugged in. • The tape is at its end. • Pause mode is activated. | <ul style="list-style-type: none"> • Plug the power cord. • Rewind the tape. • Cancel the pause mode by pressing the PLAY button. |
| Unit does not play. | <ul style="list-style-type: none"> • The TAPE MONITOR switch is not pressed. • The OUTPUT LEVEL control knob is set to "min" position. • Sound is not recorded on the tape. • Incorrect operation of the receiver. • Incorrect connection to the receiver. | <ul style="list-style-type: none"> • Press the TAPE MONITOR switch to the "tape" position. • Turn the OUTPUT LEVEL control knob clockwise. • Exchange with a recorded tape. • Turn on the power switch and tape monitor switch of the receiver. • Reconnect this unit to the receiver, referring to page 4. |
| Unit does not record. | <ul style="list-style-type: none"> • The erase-prevention tabs are removed from the cassette shell. • Incorrect connection to the receiver. • INPUT LEVEL control knob is set to "0" position. | <ul style="list-style-type: none"> • Change the tape, or cover the holes with adhesive tape. (See page 2.) • Reconnect this unit to the receiver. (See page 4.) • Adjust the INPUT LEVEL control knob. (See page 7.) |
| Sound is distorted. | <ul style="list-style-type: none"> • Distorted sound is recorded on the tape. • The tape is worn out. • A Dolby-encoded tape is reproduced with DOLBY NR switch "off". • Tape head is dirty or magnetized. | <ul style="list-style-type: none"> • Record again by setting the correct recording level. (See page 7.) • Change to a new tape. • Press the DOLBY NR switch and select the type of the Dolby NR system with the DOLBY NR TYPE selector. • Clean the tape head with a cotton swab or demagnetize the tape head. (See page 9.) |
| High frequency sound is not reproduced clearly. | <ul style="list-style-type: none"> • Tape head is dirty or magnetized. • Incorrect TAPE SELECTOR button is depressed. • A tape not recorded with the Dolby NR system is reproduced with the Dolby NR system ON. • The bias fine trim is misadjusted. | <ul style="list-style-type: none"> • Clean the tape head or demagnetize it. (See page 9.) • Press the correct TAPE SELECTOR button according to the type of tape. (See the table on the page 8.) • Repress the DOLBY NR switch to the "off" position. • Adjust the BIAS FINE TRIM knob according to the instructions on page 8. |